

### **Abstract**

A non-contact position sensor including a plurality of sensor elements configured in an array. Each of the sensor elements is configured to provide an output associated with each of a plurality of positions of a sensor control element relative to the position sensor, whereby a separate combination of the outputs is provided for each of the positions. In one embodiment, the sensor elements may be Hall effect sensors, and the sensor control element may be a magnet. In another embodiment, the sensor elements may be Hall effect sensors and the sensor control element may be a shunt for blocking a magnetic field the Hall effect sensors. A vehicle seat position sensor system and a method of sensing vehicle seat position are also provided.